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MITSUBISHI MOTOR SALES OF AMERICA, Inc.

TECHNICAL SERVICE BULLETIN

SUBJECT: **1989 MONTERO MANUAL TRANSMISSION SPECIAL TOOLS SERVICE MANUAL REVISION**

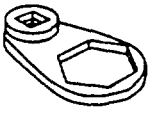
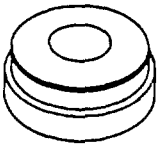
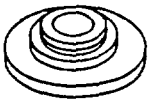
NO. TSB-90-22-002
DATE February, 1990
MODEL Montero

TSB REVISION TSB-90-22-002

PURPOSE

New tools have been released for transmission repair for the 1989 3.0L Montero. Further, some special tools referenced in the 1989 Montero service manual for the 3.0L transmission are not necessary for repair procedures and need to be designated as "NOT USED." Bearing pulley adaptor #MD998811-01 is to be used in conjunction with #MD998020. Shown in this bulletin are the service manual revisions that must be made on the affected service manual pages. Please make the indicated corrections and write this Technical Service Bulletin number in the TSB revision boxes on the affected pages.

NEW TRANSMISSION TOOLS

MD998809-01		Locknut Wrench (41mm)
MH061405-01		Dummy Bearing
MH061407-01		Oil Seal Installer- Use with MB990938-01
MD998811-01		Pulling Screw Adapter

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FILE UNDER: Group 22 Manual Transmission in the Dealer Service Information Binder (724)

CIRCULATE TO:
☐ GENERAL MANAGER ☐ PARTS MANAGER ☑ TECHNICIAN
☐ SERVICE ADVISOR ☑ SERVICE MANAGER ☐ WARRANTY PROCESSOR ☐ SALES MANAGER

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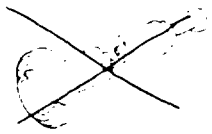
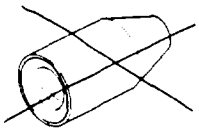
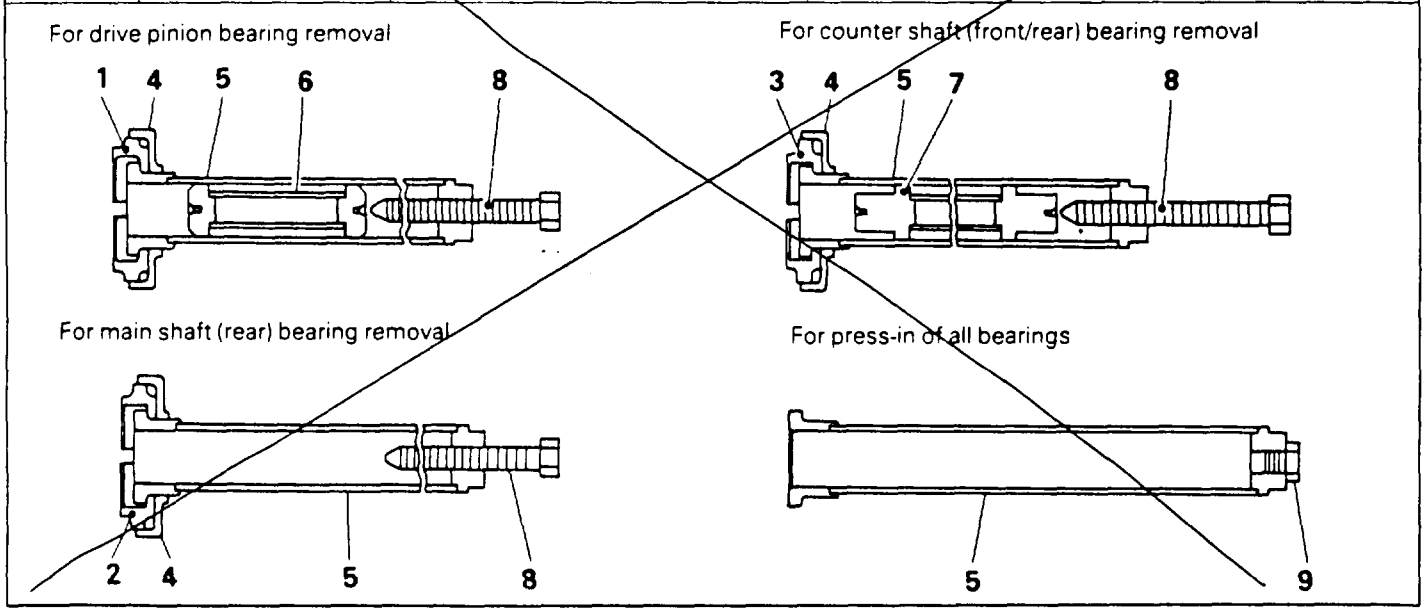
Tool	Number	Name	Use
	~~MH061400~~ NOT USED	Puller and installer kit	For removal/installation of transmission ball bearings
	MH061407	Oil seal installer	For clutch housing oil seal press-in
	~~MH061301~~ NOT USED	Synchronizer hub puller	For removal of 3rd gear, 3rd an 4th synchronizer hub
	~~MH061322~~ NOT USED	Oil seal guide	For clutch housing installation

Composition of puller and installer kit ~~(MH061400)~~ NOT USED

~~Code No.~~	Part No.	Part name	Note
1	MH061409	Main shaft bearing claw	71.8 mm (2.827 in.) For drive pinion
2	MH061410	Main shaft bearing claw	68.8 mm (2.709 in.) For main shaft (rear)
3	MH061411	Counter shaft bearing claw	64.8 mm (2.551 in.) For counter shaft (front/rear)
4	MH061306	Protector	
5	MH061412	Body	
6	MH061308	Bearing puller rod	For drive pinion
7	MH061309	Bearing puller rod	For counter shaft
8	03726-81016	Bolt	
9	03726-81017	Plug	


For drive pinion bearing removal
1 4 5 6 8
For counter shaft (front/rear) bearing removal
3 4 5 7 8
For main shaft (rear) bearing removal
2 4 5 8
For press-in of all bearings
5 9

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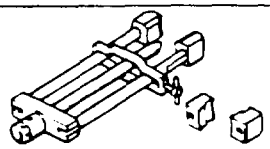
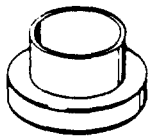
	MD998020 USE WITH ADAPTOR MD 99811-01 ON 3.0L TRANSMISSION	Bearing puller	Removal of main drive gear and main shaft bearing
	MD998067-01	Mainshaft bearing installer	Driving in of main shaft bearing

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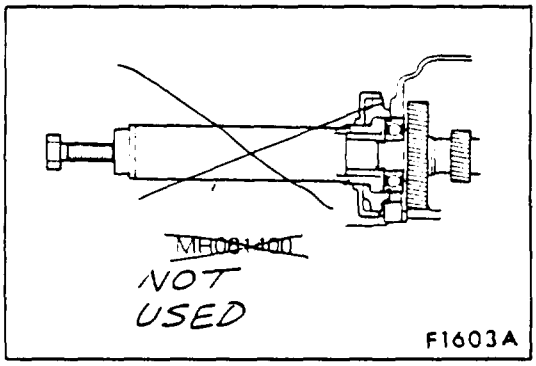

23./26./28./31. REMOVAL OF BALL BEARING /25./27./30 SNAP RING

Remove the snap rings for all ball bearings, and then, ~~using the special tool,~~ remove the ball bearings. In order to avoid dropping the countershaft and damaging the teeth, etc., remove the bearings after first receiving at the reverse gear part.

NOTE
Each bearing must be removed by changing the kit combination. (Refer to 3. "Special Tools".) The illustration at the left shows the countershaft part.

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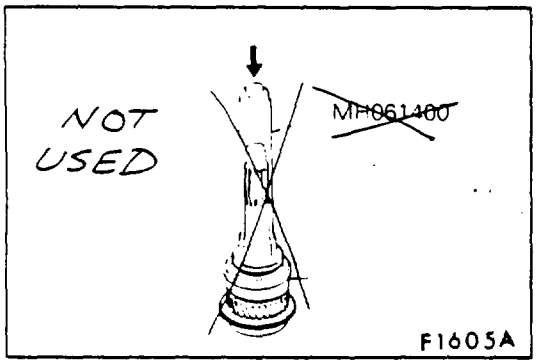

SERVICE POINTS OF REASSEMBLY N21MGBQ

31. INSTALLATION OF BALL BEARING/29. SNAP RING

(1) Using the special tool, tap the ball bearing into the drive pinion.
(2) ~~Using the special tool,~~ secure the ball bearing by the snap ring.

NOTE
The 29. snap ring is not to be installed.

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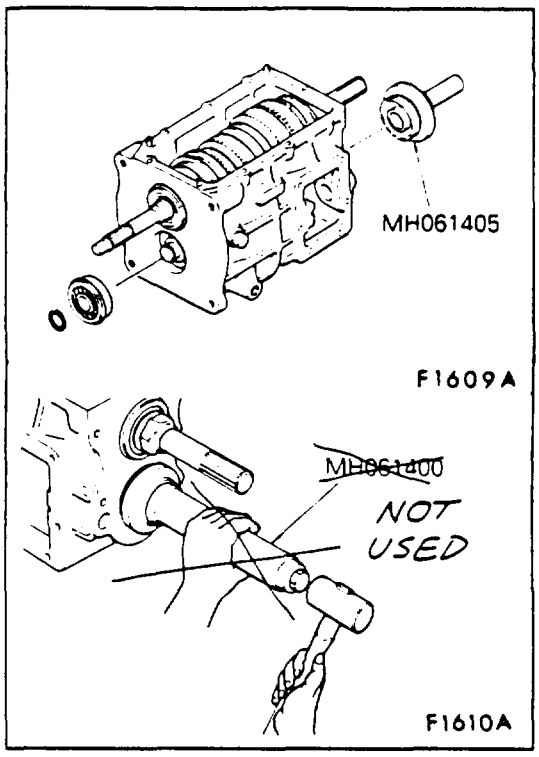

26. INSTALLATION OF COUNTER SHAFT BALL BEARING (FRONT)/24./25. SNAP RING

(1) Install the snap ring to the ball bearing.
(2) While using the special tool to hold the rear part of the counter shaft, use the special tool to press in.
(3) Using the special tool, install the snap ring to the counter shaft and secure the bearing.
(4) Remove the counter shaft's dummy bearing.

23. INSTALLATION OF COUNTER SHAFT BALL BEARING (REAR)/22. SNAP RING

(1) ~~Using the special~~ tool, press-in the ball bearing.
(2) ~~Using the special~~ tool, install the snap ring to the counter shaft and secure the bearing.

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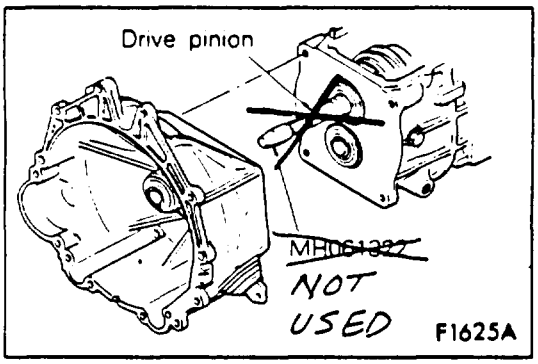

(2) Apply a coating of multipurpose grease to the lip part of the oil seal.
(3) ~~Install the special tool to the drive pinion, and then~~ install to the clutch housing.

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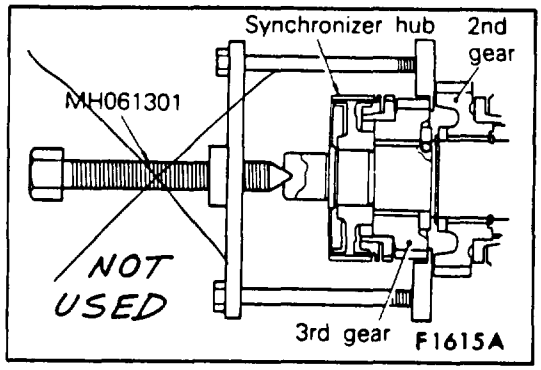

17./18. REMOVAL OF 3RD GEAR, 3RD AND 4TH SYNCHRONIZER HUB

~~Using the special tool~~, remove 3rd gear and the 3rd & 4th synchronizer hub.